

IN THE CLAIMS:

Claims 1-4. (Cancelled).

5. (Previously Amended) A display apparatus of the type which forms an image by modulating light by one or more display elements, said display apparatus comprising:
cooling means for cooling the one or more display elements; and
means for varying the quantity of light impinging on the one or more display elements, wherein a cooling capacity of said cooling means with respect to the one or more display elements is varied according to a variation in the quantity of light.

6. (Previously Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising:
cooling means for cooling the one or more display elements; and
means for obtaining a plurality of display forms by changing the color purity of at least one light of the plurality of lights, wherein a cooling capacity of said cooling means is varied with respect to the one or more display elements modulating the at least one light according to a variation in the color purity of the at least one light.

7. (Previously Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising:

cooling means for cooling the one or more display elements; and
means for varying the color purity of at least one light of the plurality of
lights by inserting or removing a wavelength selection element into or from the optical path of
the at least one light or varying the attitude of said wavelength selection element, wherein a
cooling capacity of said cooling means with respect to the one or more display elements
modulating the at least one light is varied according to whether said wavelength selection
element is in the optical path of the at least one light or according to a variation in the attitude of
said wavelength selection element in the optical path of the at least one light.

8. (Previously Amended) A display apparatus according to one of Claims
5, 6 and 7, wherein said cooling means is an air cooling type cooling means, wherein the
variation in the cooling capacity is a variation in an air flow rate with respect to the one or more
display elements .

9. (Previously Amended) A display apparatus according to one of Claims
5, 6 and 7, wherein said cooling means is a water cooling type cooling means, wherein the
variation in the cooling capacity is a variation in a water flow rate with respect to the one or more
display elements.

10. (Previously Amended) A display apparatus of the type which forms a
color image by modulating a plurality of lights, different from each other in color, by one or more
display elements, said display apparatus comprising:

air cooling means for air cooling the one or more display elements;

means for varying the color purity of at least one light of the plurality of lights by inserting or removing a wavelength selection element into or from the optical path of the at least one light or varying the attitude of said wavelength selection element; and

means for supplying information on the position or the attitude of said wavelength selection element with respect to the optical path of the at least one light, wherein an air flow rate of said air-cooling means is varied with respect to the one or more display elements modulating the at least one light according to whether said wavelength selection element is in the optical path of the at least one light or according to the attitude of said wavelength selection element in the optical path of the at least one light.

11. (Currently Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising: ~~according to one of Claims 2 and 10;~~

means for changing the color purity of at least one light of the plurality of lights by inserting or extracting a wavelength selection element into or out of the optical path of the at least one light or changing the attitude of said wavelength selection element; and

means for supplying information as to whether said wavelength selection element is in the optical path of the at least one light or information on the attitude of said wavelength selection element in the optical path of the at least one light,

wherein said means for supplying information is provided with means for (i) detecting that said wavelength selection element is in the optical path of the at least one light or that said wavelength selection element is in a predetermined attitude and (ii) for lighting a lamp.

12. (Currently Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising: according to one of Claims 2, 7 and 10;

means for changing the color purity of at least one light of the plurality of lights by inserting or extracting a wavelength selection element into or out of the optical path of the at least one light or changing the attitude of said wavelength selection element; and

means for supplying information as to whether said wavelength selection element is in the optical path of the at least one light or information on the attitude of said wavelength selection element in the optical path of the at least one light,

wherein the wavelength selection element is an element which transmits visible light of a wavelength longer than a predetermined wavelength and blocks visible light of a wavelength shorter than that or an element which transmits visible light of a wavelength shorter than a predetermined wavelength and blocks visible light of a wavelength longer than that.

13. (Currently Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising: according to one of Claims 2, 7 and 10;

means for changing the color purity of at least one light of the plurality of lights by inserting or extracting a wavelength selection element into or out of the optical path of the at least one light or changing the attitude of said wavelength selection element; and

means for supplying information as to whether said wavelength selection element is in the optical path of the at least one light or information on the attitude of said wavelength selection element in the optical path of the at least one light,

wherein the wavelength selection element is an edge filter, a band pass filter or a band cut filter.

14. (Currently Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising: according to one of Claims 2, 5, 6, 7 and 10;

means for changing the color purity of at least one light of the plurality of lights by inserting or extracting a wavelength selection element into or out of the optical path of the at least one light or changing the attitude of said wavelength selection element; and

means for supplying information as to whether said wavelength selection element is in the optical path of the at least one light or information on the attitude of said wavelength selection element in the optical path of the at least one light,

further comprising a plurality of dichroic mirrors for separating white light from a light source into the plurality of lights of different colors, wherein the plurality of lights of different colors consists of red, green and blue lights.

15. (Original) A display apparatus according to Claim 14, wherein the display elements are arranged in correspondence with the red, green and blue lights, and wherein there are provided a plurality of dichroic mirrors for synthesizing image light from a plurality of display elements modulating the red, green and blue lights.

16. (Previously Amended) A display apparatus according to Claim 14, wherein the one or more display elements include three pixel groups, respectively corresponding to the red, green and blue lights, and a micro lens arrays condensing lights of the colors corresponding to the three pixels of each group.

17. (Currently Amended) A display apparatus of the type which forms a color image by modulating a plurality of lights, different from each other in color, by one or more display elements, said display apparatus comprising: ~~according to one of Claims 2, 5, 6, 7 and 10,~~

means for changing the color purity of at least one light of the plurality of lights by inserting or extracting a wavelength selection element into or out of the optical path of the at least one light or changing the attitude of said wavelength selection element; and

means for supplying information as to whether said wavelength selection element is in the optical path of the at least one light or information on the attitude of said wavelength selection element in the optical path of the at least one light,

further comprising a projection lens for projecting the image of display portions of the one or more display elements onto a screen or a wall.

18. (Previously Amended) A projection type display apparatus comprising:
image display elements;
a light source for illuminating said image display elements;
at least one first optical element for color-separating the light from said light source into at least two color lights and causing them to impinge upon said image display elements;

at least one second optical element for synthesizing the lights output from said image display elements into one; and

a lens upon which the light from said at least one second optical element impinges and which projects the image displayed by said image display elements in an enlarged state, wherein a third optical element which transmits visible light of a wavelength longer than a predetermined wavelength and blocks visible light of a wavelength shorter than that or vice versa, can be inserted into or removed from the optical path between said at least one first optical element and said at least one second optical element, and wherein there is provided means for supplying information as to whether said third optical element is in the optical path.

19. (Previously Amended) A projection type display apparatus according to Claim 18, wherein said means for supplying information as to whether said third optical element is in the optical path consists of means for detecting that said third optical element is in the optical path and indicating this by an indicating lamp.

20. (Previously Amended) A projection type display apparatus comprising:

- image display elements;
- a light source for illuminating the image display elements;
- a first optical element for color-separating the light from said light source into at least two color lights and causing them to impinge upon said image display elements;
- a second optical element for synthesizing the lights output from said image display elements into one; and

a lens upon which the light from said second optical element impinges and which projects the image displayed by said image display elements in an enlarged state, wherein a third optical element which transmits visible light of a wavelength longer than a predetermined wavelength and blocks visible light of a wavelength shorter than that or vice versa, can be inserted into or removed from the optical path between said first optical element and said second optical element, and wherein there is provided means for changing a cooling condition of said image display elements upon which a larger or smaller quantity of light impinges according to whether said third optical element is in the optical path.

21. (Previously Amended) A projection type display apparatus according to Claim 20, wherein said means for changing the cooling condition comprises means for detecting if said third optical element is in the optical path and reducing an air flow rate of the cooling fan as compared to a condition in which said third optical element is not in the optical path.

22. (Currently Amended) An image processing apparatus comprising a display apparatus as claimed in one of Claims 2, 5, 6, 7, 10, 11, 12, 13, 14, 17, 18 and 20 and a computer for inputting image information to said display apparatus.